

#### SUPPLIES NEEDED:

- 2 Lemons
- Baking Soda
- Food Coloring
- Popsicle sticks
- Dish soap
- Tray (It gets messy)
- Cup & Spoons



#### CHEMICAL REACTIONS:

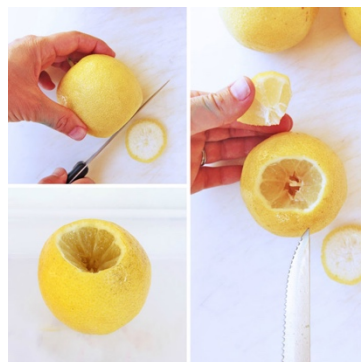
Lemon juice contains citric acid which when mixed with the base, baking soda (sodium bicarbonate), reacts to form carbon dioxide and sodium citrate which causes the liquid to fizz and bubble.



## LEMON VOLCANO

#### INSTRUCTIONS:

1. Have an adult prep the lemon by slicing the bottom off so that the lemon can sit flat. Flip the lemon over and slice out the core.



2. Prepare extra lemon juice by slicing a second lemon in half and juicing it into a cup and set aside.
3. Place your cored lemon on a tray and use the popsicle stick to mush the center of the lemon and bring the juices out into the center of the lemon. (Be sure to keep the juices in the lemon)
4. Place a few drops of food coloring into the center of the lemon.
5. Add a good squeeze of dish soap into the lemon. (This is not necessary for the reaction but it will cause the bubbles to ooze and froth more and longer)
6. Add a spoonful of baking soda into the lemon. It should start to fizz. Take your popsicle stick and stir the lemon. It should start foaming really well as you stir it.
7. To keep the reaction going add more baking soda, coloring, dish soap, and the reserved lemon juice to the lemon. Squeezing the lemon to release the juices also enhances the reaction.



Source: <http://babbledabbledo.com/science-activity-kids-lemon-volcano/?m>